



# Prestigesportspitches

CIVIL ENGINEERING MADE FOR SPORT

**We design and build 3G Astroturf Sports Pitches for schools, colleges and communities**

Prestige has been undertaking high quality projects for 25 years using our own qualified and experienced workforce and our own plant and machinery. We are fully insured members of Construction Line, CHAS and the Guild of Master Craftsmen.



The following information is designed to give you an overview of the issues that need to be addressed when commissioning an artificial turf pitch. Prestige will guide you from conception to completion and will ensure that you end up with the optimum playing surface achieved in the most cost effective way.

<http://www.prestigesportspitches.co.uk>



## Usage Criteria

The table below lists the common surfaces and show which surface best suits which sport.

3G		Primary Sport		Secondary Sport	
	<b>60 &amp; 65mm</b> <i>(incl. shock pad)</i>		Rugby		Football
	<b>50 &amp; 60mm</b>		Football		Low impact Rugby
	<b>40mm</b> <i>(incl. shock pad)</i>		Football		Hockey

## Sand

	<b>18-23mm</b> <i>Sand Dressed</i> <i>(incl. shock pad)</i>		Hockey		Football Tennis
	<b>18-23mm</b> <i>Sand Filled</i> <i>(incl. shock pad)</i>		Hockey		Football Tennis

## Muga\*

	<b>Tarmac</b>		Basketball Tennis Netball		5-a-side
	<b>12-20mm</b> <b>Polymeric</b>		5-a-side Basketball Athletics Netball		Tennis

\* Multi-Use Games Area



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**Planning Permission and Funding:** New build, floodlighting and some refurbishments are likely to need full planning permission. Design, engineers, performance testing (if required) and planning costs should be budgeted for. Professional services fees can be allowable in funding applications.

**Site Assessments and Surveys:** A Geo-technical survey is advisable to establish ground conditions. The following will help to minimise cost and ensure optimum playing conditions: flat ground; easy emergency and maintenance access; clean access (paved or tarmac) to minimise surface contamination; convenient electricity supply for flood lights; close to changing facilities; disabled access. Ideally the playing direction should be north - south to avoid the effects of the setting sun on players.

**Construction:** Prestige will discuss all the options with you with a view to achieving maximum performance at minimum cost. We will prepare a unique project specification to ensure that the pitch will have the correct playing characteristics, will be robust and safe to use, and will remain operational for a realistic period of time.

**Site Preparation:** A detailed level survey will be carried out to confirm finished levels and the position of the facility.

**Drainage:** Prestige's 25 years experience of drainage projects will guarantee expert preparation of the site. Surface water will drain away to prevent flooding and any excess water will drain from the sub-base to preserve structural integrity.

**Sub-base:** This will ensure stability and maximum drainage. It will be inert and frost-proof using graded aggregates or recycled material.



**Tarmac (engineered) base:** A rigid surface to avoid deterioration in surface quality that can happen over time due to localised movement. Generally used on hockey pitches and multi use games areas (MUGAS) and constructed from one or two courses of porous (open textured) macadam. Two courses have structural benefits but both single and two course bases can achieve required tolerances of surface regularity.

**Shock Pad:** Helps to give greater dynamic performance and reduce injury. There are different types and styles of pad. They sit between the grass surface and the underlying sub base.



# Prestige sport pitches

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**Carpets:** There is a very wide choice of artificial grass carpets and consequently a huge variation in cost. They are dependent on the type of sport and the level at which it is to be played.

**3G:** 3<sup>rd</sup> generation (rubber crumb) surfaces come in pile heights from 40mm-65mm. They are laid over a dynamic (stone) or engineered (tarmac) base with a 10 – 25 mm shockpad if required. Designed for football and hockey to 40mm.



**Sand-filled:** 18-25mm pile height supported by sand to 100% of pile height. Good surface for hockey or tennis. Can be used for football at training level.

**Sand-dressed:** 16-20mm pile height supported by sand to 80% of pile height. Preferred choice for hockey. Can be used for tennis and football training.

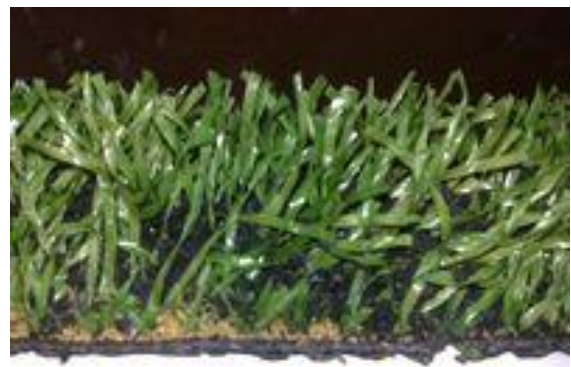
**Tarmac:** a multi-use, porous surface that can be used as an economical alternative to sand-filled, sand-dressed and polymeric surfaces. It is also used to create engineered bases for 3G surfaces.

**Infill:** The infill used in artificial turf carpets is made from granulated rubber, or a rubber/sand mix.

60mm 3G Carpet



40mm 3G Carpet

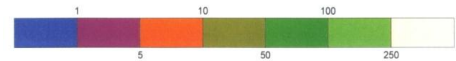


**Maintenance:** Any guarantee from Prestige Sports Pitches or their suppliers will be conditional on maintenance schedules being adhered to and logged. Please note that all maintenance should be done using specialist equipment.

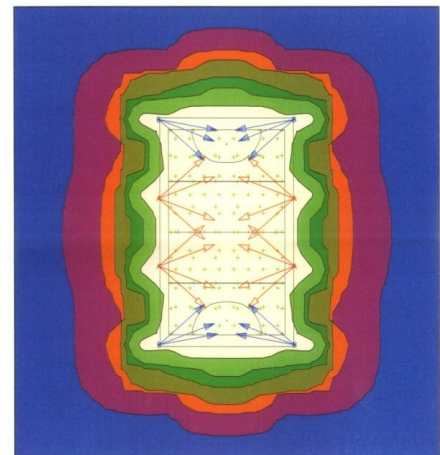
**Performance Standards:** Prestige Sports Pitches works only with accredited turf suppliers whose products are stringently and regularly tested to ensure that they conform to all current requirements and tolerances. All our installed pitches are independently tested to ensure that they meet required levels of performance and show quality workmanship, materials and maintenance.



**Floodlighting:** Floodlighting maximises the use of your pitch and can help obtain funding where evidence of community use is required. Lighting systems require a new electricity supply positioned within 10m of the pitch. This can be single or three phase depending on loading.



Prestige's lighting columns range from 10m to 18m high. Columns can be base or mid-hinged for ease of maintenance. Two or three 2kw lights are commonly mounted on each column. The level of lighting is measured in lux. The lighting system should be adequate to produce at least the required lux level from beginning to end of the life of the lamps (i.e. maintained lux level). Uniformity of lighting is very important and is achieved by the correct positioning and correct number of columns and lights.



It is important to consider lighting pollution to surrounding areas. Prestige sports lights are metal halide, low glare, with no upward light spill.

**Fencing:** Prestige Sports Pitches offers chain link, weld mesh, double wire and rebound mesh. Double wire with a rebound panel is top of the range, stronger, more secure and gives high performance in terms of ball impact and rebound. Fencing can be powder coated in RAL colours if required. Fencing is usually fitted 3m high though this can increase to 4.5m behind the goals or adjacent to roads where ball containment is more important.

weld mesh



double wire



double wire with rebound





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At least one single gate and one pair of double gates should be included in fencing plans. Gates should open outwards and the double gates should be sufficient to allow access for emergency and maintenance vehicles.



**Rebound Mesh/Boards:** Rebound mesh panels are, fitted to 1.2m high on our weld mesh and double wire systems. They provide rebound characteristics similar to those of a solid surface, reduce noise pollution and are vandal resistant. Wooden rebound boards are laminated, plastic coated or powder coated for strength and protection. Boards are 2440mm long and 1200mm high. Thickness is usually between 9mm and 32mm.

**Kick Boards:** Used for hockey to protect the fencing from high impact. They are made from treated softwood 225mm x 38mm or 225mm x 50mm.

**Division Netting:** Division netting can be used to split full size pitches into smaller activity areas thereby maximising use of the pitch.

**Line Painting:** should be permanent. Lines should be between 100mm and 125mm wide and all the same width.

**Goal Posts:** should be manufactured to a recognised standard to avoid injury.

## Pitch Dimensions

Sport	Age	Length (M)	Width (M)	Run Off * Min at each end (M)	Run Off * min at each side (M)	Total pitch size (M)
Football	U17 - U18	100	65	3.0	3.0	106 x 71
	U15 - U16	82	55	3.0	3.0	88 x 61
	U13 - U14	73	55	3.0	3.0	79 x 61
	U11 - U12	64	46	3.0	3.0	70 x 52
Mini	U9 - U10	54.9	36.6	3.0	3.0	60.9 x 42.6
	U7 - U8	45.75	27.45	3.0	3.0	51.75 x 33.45
5-a-side	Outdoor	25 - 50	16.5 - 35	2.0	2.0	29 - 54m x 20.5 - 39m
	Indoor	25 - 42	15 - 25	2.0	2.0	29 - 46m x 19 - 29m
Hockey		91.4	55	5.0	4.0	101.4 x 63
Tennis	Domestic	23.77	10.97	4.88	2.74	33.53 x 16.45
	Club	23.77	10.97	5.49	3.05	34.75 x 17.07

- Run offs are designed to avoid injury and should be surfaced in the same way as the playing area



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For further information, please see our website at

[www.prestigesportspitches.co.uk](http://www.prestigesportspitches.co.uk)

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